



**ISTE Conference**  
**San Antonio, Texas**  
23 – 26 June 2013  
- and other ICT,  
popular culture &  
media news



Lindy Hathaway  
Dickson College, ACT

# ISTE 2013

<http://www.isteconference.org/2013/>



**35 full length videos** of various sessions:

[http://www.youtube.com/playlist?list=PL6aVN\\_9hcQEFDH57WbT4sY8xQ6Mpp5kbO](http://www.youtube.com/playlist?list=PL6aVN_9hcQEFDH57WbT4sY8xQ6Mpp5kbO)

- Unleash Google Docs in your classroom
- iLearning, iFlexible, iPads
- iThink, therefore iApp: great apps for maths and science
- 101 free tech tools for teachers
- Closing keynote by Adam Bellow: You're invited to change the world
- Did you know? Amazing features of Google apps

**Handouts from sessions:** <http://www.isteconference.org/2013/glance/resources.php>

# Jane McGonigal: games guru

## ISTE Keynote June 2013: Learning is an epic win

- 1 billion gamers worldwide.
- Most college students spend more time playing games than doing coursework.
- Games = 7 billion + hours per week of maximum engagement.
- 100 million hours to build Wikipedia = 3 weeks of Angry Birds play or 7 days of Call of Duty.
- Gamers = 99% male, 91% female.

<http://janemcgonigal.com/>





# 10 positive emotions of games

According to McGonigal:

1. Creativity
2. Contentment
3. Awe and wonder
4. Excitement
5. Curiosity
6. Pride
7. Surprise
8. Love
9. Relief
10. Joy



- Game players are happiness engineers and super-empowered hopeful individuals!
- Interesting – creativity is not a positive emotion but it drives gamers and it's what they really want to feel.
- Gamers spend 80% of the time failing but they draw on positive emotions to get through.
- Gamers supercharge their learning centres to improve at games – motivation, reward, learning & memory centres of the brain light up when gaming.

- How do we connect the 1 billion gamers and make them flourish?
- **New York Public Library game** created by McGonigal (2011) – players solved mysteries, found artefacts of historical change and wrote a book in a day.
- 10 000 applied, 500 chosen.
- By 6am, 1184 stories were bound into a book.



- **Evoke** project in South Africa (2010) – players were superheroes of the future where Africa saves the world.
- Players made peer evaluations of innovations submitted etc
- Players were certified as social innovators; used this on CVs.
- At the end of 10 weeks 50 businesses were funded  
eg. Libraries Across Africa (LAA).  
In 2013, a library in Ghana will open – a franchise, with food, internet etc

# Steven Johnson: Where good ideas come from

- The slow hunch – no Eureka moments  
eg. Tim Berners-Lee developed the web over a 10 year period at CERN.
- Darwin kept a Commonplace Book – the Evernote of its time – his notes, quotes, ideas etc
- Liquid networks & information spillover – ideas flow from mind to mind, leading to more creativity eg. 18<sup>th</sup> century coffeehouses in Paris, Vienna, London, Boston – multidisciplinary conversations across conceptual borders.
- Games have a major role in the future of learning – players can drop into mindsets & use HOTS.



*Where good ideas come from* – TED Talk(2010)  
[http://www.ted.com/talks/steven\\_johnson\\_where\\_good\\_ideas\\_come\\_from.html](http://www.ted.com/talks/steven_johnson_where_good_ideas_come_from.html)

Latest book: *Future perfect: the case for progress in a networked age* (2012)

# You're invited to change the world

## Adam Bellow: Closing keynote ISTE

- Wore Google Glass and began with: “OK Glass, start presentation” - showed video of conference made with Google Glass plus his slides.
- We must learn how to create and not just consume. Build stuff that matters – and share it!
- Make schools more like a startup business – respect failure, embrace curiosity, collaborate & see challenges as opportunities.

- Think differently like Steve Jobs!
- Google workers can spend 20% of their time doing something they are passionate about.



[www.educlipper.net](http://www.educlipper.net) – clip anything, share everything.

<http://edutecher.net/> - lots of subject area links; includes useful tech videos in eduTecherTV.



# Mega makeovers: 5 global tech trends that will change education

## Jason Ohler, ISTE 2013

(Emeritus Ed Tech Professor, Uni of Alaska)

<http://www.jasonohler.com/index.cfm>

Education needs creative thinking, new literacies, digital citizenship.

### Trend 1: Big data

- Huge amounts of data all around  
eg. 35 million hits on global warming from Google.
- Huge amount of data about us and our habits.
- Learning will be tailor made  
eg. using US student database with grades etc.

### Trend 2: Immersion

- Devices always on; overwhelming
- GPS triggered augmented reality
- Visually triggered AR



### Trend 3: Semantic web (web 3.0)

- The web is rewritten so machines can talk to each other more easily, then talk to us.
- The web becomes a huge suggestion box and gives us info on what it thinks we want.
- Web 4: The Internet of Things – where everything has an IP address eg. Tyre tells car it's flat, car finds garage & charts route for you.
- Artificial Intelligence (AI) – can essays be graded by AI?

### Trend 4: Extreme BYOD

- BYOD is individualised workspace.
- Smart clothing – shirts and undies with connectivity!
- Branding BYOD – time for it to be turned off eg. class discussions.



## Trend 5: Transmedia

- Convergence culture – eg. get books about each TV episode, become immersed in storylines & possibilities.
- Fan involvement.
- Storytelling in all its forms.



## Trend 6: Singularity

- Futurist Ray Kurzweil – Director of Engineering at Google  
<http://www.kurzweilai.net/>
- Artificial intelligence will usher in the singularity. A new reality will rule as superintelligence emerges through technology. Rise of the machines?



# Your school library: mobile, flipped, curated

Joyce Valenza, Gwyneth Jones,  
Shannon Miller, Michelle Luhtala  
<http://curatedflipped.wikispaces.com>

- Learning agility is now a top attribute desired by employers.
  - Mobile, flipped curation is happening everywhere in all kinds of courses.
  - **Mobile apps** – have a “library in your pocket” app with links to Gale databases etc.
  - Make learning playlists eg. in Learnist and embed in platforms eg. Edmodo.
  - **Flipping** – what is the best use of face to face classroom time?
- **Curation** is the new search.
  - Libraries are moving from DDC to DCC – Digital Content Creation.
  - The library collection is not what you own, it is what you use.
  - Curation is a life skill – new solutions are needed for students to manage their work.
  - We want to grow kids that can curate their own information – Joyce Valenza.



# Tools for the mobile, flipped, curated library

- **Thinglink** – embed anything as you curate; app available.
- **Educlipper** – curate resources, add portfolios.
- **Edcanvas** – curate resources, videos, photos. Boxes flip over, put info on the back.
- **Instagrok** – graphic organiser.
- **Mentormob** – makes playlists, embed videos.
- **Smore** – makes great newsletters and flyers.
- **Symbaloo** – Curate, good visual display buttons, has app.
- Shannon Miller – organised all K-12 classes with Symbaloo; each class had their own page with **Sweetsearch** search engine in the middle.
- **Haiku Deck** – free iPad app for presentations and slideshows.
- Know your school community and the tools that work.



# School ICT policy

- There has to be a large amount of trust. A short statement may be all that is needed:  
“Use technology responsibly, ethically and respectfully of the work of others.”  
(M. Luhtala, New Canaan HS, CT)
- *We trust you* library video – shown to new students at start of year:  
<http://www.youtube.com/user/loots1964>



# iPads

**Unleash the creative potential of iPads** - ISTE presentation by Kel Hathaway – apps and ideas.

<http://ipadcentral.wikispaces.com/Presentations>

**iPads for education** – Scoopit links (Kel Hathaway).

[http://www.scoop.it/t/all-things-ipad?sc\\_source=http%3A%2F%2Fipadcentral.wikispaces.com%2F](http://www.scoop.it/t/all-things-ipad?sc_source=http%3A%2F%2Fipadcentral.wikispaces.com%2F)

**Apps in the CEO** – What apps are our schools using? (Scoopit by Steve Carter).

[http://www.scoop.it/t/apps-in-the-ceo?sc\\_source=http%3A%2F%2Fipadcentral.wikispaces.com%2F](http://www.scoop.it/t/apps-in-the-ceo?sc_source=http%3A%2F%2Fipadcentral.wikispaces.com%2F)

<http://ipadcentral.wikispaces.com/>

**APPitic** – a directory of apps for education chosen by Apple Distinguished Educators.

<http://appitic.com/>



# Flipped classrooms

[www.flippedclassroom.org](http://www.flippedclassroom.org)

Lectures & presentations are done at home (usually via video) and the assignments are done in class, where the teacher can guide and help.

- Time – a big hurdle.
- Create or curate? Should you make your own videos for students to view at home, or just use ready-made videos?
- Use PBS, ABC curated videos – a great start.
- Save videos as MP4; easiest to put them on YouTube; Vimeo is ok; put captions on videos.
- “Watch the video, then ask me an interesting question”.
- Let students make the videos.
- Try flipping just one class to begin with.

## What to look for:

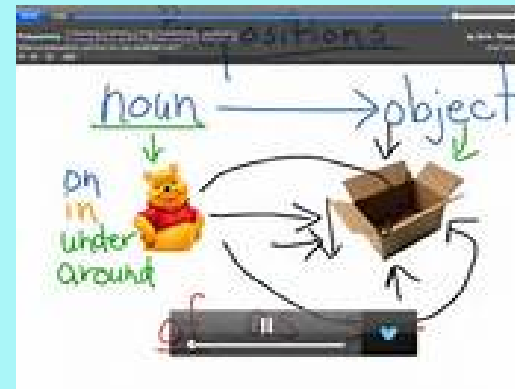
- Are students engaged? Students like autonomy.
- Give parents information.
- Sometimes the highest achieving students don't like flipped classrooms.





# iPad apps for flipped classrooms

- **ShowMe Interactive Whiteboard** – turns your iPad into an IWB; record voiceover tutorials; share them.
- **Explain Everything** – capture everything you create, narrate, annotate and animate.
- **SlideRocket** – Create SlideRocket cloud presentations or PPTs and play them on SlideRocket Player (soon to be ClearSlide).
- **Nearpod** – make a multimedia presentation ; share content with students and control the activity; students submit responses.



## Amara: crowdsourced captions

[www.amara.org](http://www.amara.org)

- Submit your video to the Amara site and volunteers will work on it and provide captions/subtitles.
- Subtitles can be provided in different languages.
- The service was begun to help hearing impaired viewers – more than 200 000 videos have been subtitled.
- Amara is used by Twitter, TED Talks, Khan Academy, Cousera and Google.

## Get your own YouTube channel

- Create playlists.
- Ask for your channel to be unblocked at your school, if needed.
- Connect your YouTube account to Amara. Viewers are then invited to subtitle your videos.



# The Maker Movement

<http://SylviaShow.com>

Sylvia has been making things on her video blog since she was 8; now hired by Stager.



Look what Joey's making

<http://lookwhatjoeysmaking.blogspot.com.au/>



## Gary Stager, ISTE 2013

- Personal fabrication, tinkering, engineering and a maker culture are transforming learning.
- 3 game changers – fabrication (3D printing), physical computing, programming.
- TMI = Think, Make, Improve
- Invent to learn – is assessment always necessary?
- Book: *Invent to learn: making, tinkering and engineering in the classroom* – Sylvia Libow Martinez and Gary Stager

<http://www.inventtolearn.com/>

- **Maker Faires** – 150 000 of all ages attended in San Mateo, California this year.  
[www.makerfaire.com](http://www.makerfaire.com)
- **MAKE** magazine  
<http://makezine.com>
- **Torque in Canberra** – fortnightly talks from Canberra's maker community.
- **Mini MakerFaire & Fab Lab** in Adelaide.
- **Dickson College** – UAV program, 3D printing, robotics, games, new engineering course 2014.

- **Make Hack Void** – a hackerspace/makerspace in Downer, ACT.

<http://www.makehackvoid.com/>



# Untangling the web

# Adam Bellow and Steve Dembo

<http://padlet.com/wall/ISTE13>

Lots of useful tools – including:

- **Padlet** – Wallwisher renamed. Share resources quickly on one wall.
- **Thinglink**– Add content to pictures – video, audio etc.
- **Polleverywhere** – easy surveys via text or to URL.
- **Signgenerator** – hundreds of signs – logos, comics, banners, avatars etc
- **iPiccy** – very easy photo editing.
- **Infogram** – create charts etc
- **Easel.ly** – Creates infographics.

- **The noun project** – aims to create icons for every noun, uploaded by graphic designers (not all free).

[www.thenounproject.com](http://www.thenounproject.com)



# More tools

- **Screenleap** – Free instant screen sharing. Gives a URL to share with an audience.
- **Reflector** – Wirelessly mirrors your iPad, iPhone or iPod Touch screen to any Mac or PC (which can then be shown on the projector). Not free.
- **AirServer** – same but cheaper.
- **Apple TV** - mirrors only one iPad to a TV. Needs cable to connect to TV.

- **PBS LearningMedia (US)**  
[www.pbslearningmedia.org](http://www.pbslearningmedia.org)

Thousands of free resources in all subject areas preschool – year 12. Includes videos, photos, games, audio, lesson plans.

- **Shakespeare in bits** – animated videos of best-known plays; unabridged text.



## Kathy Schrok

Great resources for iPad users:

[www.ipads4teaching.net](http://www.ipads4teaching.net)

- ISTE presentation - lots of **free** iPad apps classified in Bloom's Revised taxonomy:  
[www.ipads4teaching.net/presentation-resources.html](http://www.ipads4teaching.net/presentation-resources.html)



## Carolyn Foote (Westlake HS, Austin)

ISTE presentation - iPads in libraries:

[www.tinyurl.com/istelibrary](http://www.tinyurl.com/istelibrary)

- List of iPad apps for libraries - includes book promotion apps (eg. Audioboo, Perfect captions) & Research/production apps (eg. GoodReader, Livebinders):

<http://tinyurl.com/tlaipad>

- Her library has mobile apps for Ebsco & Gale databases and the catalogue.



# What's ethical?

- **The Pirate Bay** – 10 years old 10 Aug 2013.

<http://www.theguardian.com/commentisfree/2013/aug/12/pirate-bay-birthday-internet-freedom?INTCMP=SRCH>

- Provides links to torrent files allowing users to share content via peer-to-peer networks.
- Censored in UK, Iran, Netherlands, Finland, Denmark, Italy...but users find proxy sites.
- The whole TPB is only 90MB as it just provides links and not the files themselves.
- Just released PirateBrowser to bypass blocks from ISPs.



- **The Onion Router** – allows anonymous communication over a network. Messages are encrypted and sent through nodes called onion routers. There is no record of the origin, destination or contents of messages.
- **Edward Snowden** – Further security leaks will be prevented by replacing most system administrators with machines (Director of NSA).

[http://www.huffingtonpost.com/2013/08/08/nsa-snowden\\_n\\_3727668.html](http://www.huffingtonpost.com/2013/08/08/nsa-snowden_n_3727668.html)



# Ebsco ebooks via NLA

- Use your National Library of Australia card to access over 600 Ebsco ebooks.

- Find them in the catalogue and also in eResources.

<http://www.nla.gov.au/app/eresources/search/ebooks/?rows=10&start=0&context=ebooks>

- Most seem to be college level and above.
- So far: 86 social science, 31 science, 57 history...



# The startup economy

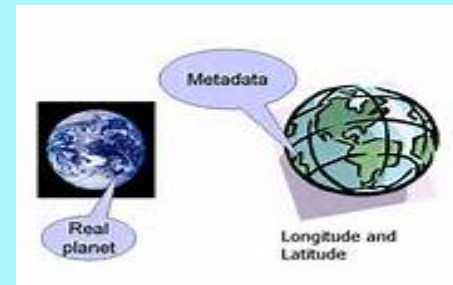
- *The Startup Economy: how to support tech startups and accelerate Australian innovation*
- Report commissioned by Google in 2013 & prepared by PwC - provides a snapshot of Australia's 1500 current tech startups .
- \$109 billion economic lift and 540 000 jobs to be unlocked from Australian tech startup sector (2033).
- More entrepreneurs needed – education sector must produce these.
- Australia should place more emphasis on computer science in schools & learn it from an early age.
- Australia must foster a stronger and open culture of entrepreneurship – we have a higher “fear of failure” than the US or Canada.
- More early stage funding is needed.
- Australian government bodies must procure from startups.



Full report: <http://www.startupaus.org/research---startup-economy>

# LRMI: Learning Resource Metadata Initiative

- International initiative led by Creative Commons (CC) and the Association of Educational Publishers (AEP) to establish a common vocabulary for describing K-12 learning resources (ie. the metadata).
- Metadata = fields to be described;  
tags = descriptors.
- Designed to work with [schema.org](http://schema.org) (the web metadata framework started in June 2011 by Google, Bing, and Yahoo).
- Aims to improve the search and discovery of online learning resources through a common framework for tagging and organizing learning resources.
- CC is co-leading the LRMI with the Association of Educational Publishers, which includes publishers Houghton Mifflin Harcourt, McGraw-Hill Education, Scholastic, Pearson, SMART Technologies & Promethean.
- **Question:** Is the Australian Schools Online Thesaurus (ScOT) developed with LRMI in mind?
- ScOT is used in the Aust. Curriculum, Scootle and SCIS library records.



ISTE: Michael Jay from LRMI

<http://www.lrmi.net/>

<http://wiki.creativecommons.org/LRMI/FAQ>

# National Indigenous Music Awards

- **Artist of the Year** - Jessica Mauboy
- **Album of the Year** - Into the bloodstream - Archie Roach
- **Song of the Year** - Shellie Morris & the Borroloola Songwomen – Saltwater people song (sung in Yanyuwa language from the Gulf, now spoken by only 10 people).
- **Filmclip of the Year** - Archie Roach - Song to sing.



<http://www.youtube.com/watch?v=m2c7zk8Grp8>

<http://www.musicnt.com.au/national-indigenous-music-awards/home/>

# Upcoming films

- **Elysium** – Director: Neill Blomkamp. Stars Matt Damon.
- **The mortal instruments: City of bones** – Director: Harald Zwart.
- **Stoker** – Stars Mia Wasikowska, Nicole Kidman.
- **Thor: the dark world** – Director: Alan Taylor.
- **Ender's game** – Director: Gavin Hood. Stars Hailee Steinfeld.
- **The Hunger Games: catching fire** – Director: Francis Lawrence.





- **The monuments men** – Director: George Clooney. Stars Clooney, Cate Blanchett.
- **The book thief** – Director: Brian Percival. Stars Geoffrey Rush.
- **Macbeth** – Director: Justin Kurzel. Stars Natalie Portman & Michael Fassbender.
- **Divergent** – Stars Shailene Woodley, Kate Winslet.
- **Finding Dory** – Director: Andrew Stanton. Stars Ellen DeGeneres (2015).
- **Skulduggery Pleasant** – Johnny Depp?? (2015)
- **Artemis Fowl** (2015)





# Who guessed?

- Peter Capaldi - the 12<sup>th</sup> Doctor.
- Matt Smith hands over his sonic screwdriver in a special episode 25 December 2013.
- 50th anniversary 3D special 23 November – Matt Smith, David Tennant, John Hurt, Billie Piper.
- Will be simulcast to 200 countries exactly 50 years after the show began in 1963.



<http://www.bbc.co.uk/programmes/b006q2x0>

# Love is in the air!

Strictly ballroom the musical – opens March 2014 in Sydney.

Director & co-writer Baz Luhrmann; set & costume designer Catherine Martin.



<http://www.abc.net.au/news/2013-08-05/strictly-ballroom-the-musical-to-premiere-in-sydney/4865934>